Environmental Protection Agency

| C1 mode number | Engine speed ¹ | Torque (percent) ² | Weighting factors |
|----------------|---------------------------|----------------------------------|-------------------|
| 4 | Maximum test speed | 10 | 0.10 |
| 5 | Intermediate test speed | 100 | 0.10 |
| 6 | Intermediate test speed | 75 | 0.10 |
| 7 | Intermediate test speed | 50 | 0.10 |
| 8 | Warm idle | 0 | 0.15 |

(2) The following duty cycle applies for ramped-modal testing:

| RMC mode | Time in mode (seconds) | Engine speed 1, 3 | Torque (percent) 2, 3 |
|-----------------|------------------------|--------------------|-----------------------|
| 1a Steady-state | 126 | Warm Idle | 0. |
| 1b Transition | 20 | Linear Transition | Linear Transition. |
| 2a Steady-state | 159 | Intermediate Speed | 100. |
| 2b Transition | 20 | Intermediate Speed | Linear Transition. |
| 3a Steady-state | 160 | Intermediate Speed | 50. |
| 3b Transition | 20 | Intermediate Speed | Linear Transition. |
| 4a Steady-state | 162 | Intermediate Speed | 75. |
| 4b Transition | 20 | Linear Transition | Linear Transition. |
| 5a Steady-state | 246 | Maximum Test Speed | 100. |
| 5b Transition | 20 | Maximum Test Speed | Linear Transition. |
| 6a Steady-state | 164 | Maximum Test Speed | 10. |
| 6b Transition | 20 | Maximum Test Speed | Linear Transition. |
| 7a Steady-state | 248 | Maximum Test Speed | 75. |
| 7b Transition | 20 | Maximum Test Speed | Linear Transition. |
| 8a Steady-state | 247 | Maximum Test Speed | 50. |
| 8b Transition | 20 | Linear Transition | Linear Transition. |
| 9 Steady-state | 128 | Warm Idle | 0. |

Time(s)

[69 FR 39213, June 29, 2004, as amended at 73 FR 37241, June 30, 2008]

APPENDIX V TO PART 1039 [RESERVED]

APPENDIX VI TO PART 1039—NONROAD COMPRESSION-IGNITION COMPOSITE TRANSIENT CYCLE

| | | | 24 |
|---------|----------------------------------|-------------------------------------|----------------------|
| Time(s) | Normalized speed (percent) | Normalized torque (percent) 1 | 25 26 27 28 |
| | 0 | 0 | 29 |
| | 0 | 0 | 30 |
| | 0 | 0 | 0 |
| | 0 | 0 | 32 |
| | 0 | 0 | 0.4 |
| | 0 | 0 | 0.5 |
| | 0 | 0 | 00 |
| | 0 | 0 | 07 |
| | 0 | 0 | 00 |
| | ا ٥ | 0 | 00 |
| | 0 | 0 | 40 |
| | 0 | 0 | 41 |
| | 0 | 0 | 42 |
| | ا ٥ | 0 | 43 |
| | ا آ | 0 | 44 |
| | ا آ | 0 | 45 |
| | ا ، | 0 | 46 |
| | ĺ | 0 | 47 |

Normalized speed (percent)

Normalized torque (percent) 1

¹ Speed terms are defined in 40 CFR part 1065. ² The percent torque is relative to the maximum torque at the commanded test speed.

¹ Speed terms are defined in 40 CFR part 1065.
² The percent torque is relative to the maximum torque at the commanded engine speed.
³ Advance from one mode to the next within a 20-second transition phase. During the transition phase, command a linear progression from the torque setting of the current mode to the torque setting of the next mode, and simultaneously command a similar linear progression for engine speed if there is a change in speed setting.